

In the Claims:

Please amend claims 1-10, which are attached to the International Preliminary Examination Report, as follows:

1. (currently amended) A high-power resistor, comprising:
a plurality of resistor elements ~~(1)~~, made of sheets of an electrically conductive resistance material, each having a first ~~(13)~~ terminal and a second ~~(14)~~ terminal, and each resistor ~~elements~~ element being mutually separated by disc-shaped insulating first shims ~~(2)~~, said first terminal of a first resistor element of the plurality of resistor element being connected to said first terminal of an adjacent second resistor element of the plurality of elements, said second terminal of the second resistor element being connected to said second terminal of an adjacent third resistor element of the plurality of resistor elements, thus forming a ~~euvent~~ current path of serially connected resistor elements, ~~characterized in that~~ wherein each of the resistor elements is formed as a ring with an outer and an inner element diameter, ~~that~~ wherein the resistor element is split by a continuous radial slit ~~(12)~~, and that said first and second terminals are arranged adjacent to the slit on both sides thereof.

2. (currently amended) A The high-power resistor according to claim 1, ~~characterized in that~~ each of said first shims ~~(2)~~ has the shape of a ring.

3. (currently amended) A The high-power resistor according to claim 2, ~~characterized in that~~ wherein said first shims ~~(2)~~ comprise a plurality of radially extending channels ~~(22, 23)~~ so

that radially extending flow paths for a cooling medium is formed which, in the plane of the sheets, are limited by two adjacent resistor elements and which, via gaps (01, 02, 03, 04), communicate with a cylinder-shaped space (SP1), limited in a radial direction by the inner edges of the resistor elements and said first shims, respectively, and with a space (SP2), located in a radial direction outside the outer edges of the resistor elements and the first shims, respectively.

4. (currently amended) A The high-power resistor according to claim 3, ~~characterized in that~~ wherein each of said first shims substantially has the shape of a circular ring with an inner diameter that is smaller than the inner element diameter and an outer diameter that is larger than the outer element diameter, and wherein said channels consist of slits (22) extending radially from an outer diameter that is larger than the outer element diameter but smaller than the outer diameter of the shim, and an inner diameter that is smaller than the inner element diameter but larger than the inner diameter of the shim.

5. (currently amended) A The high-power resistor according to claim 3, ~~characterized in that~~ wherein each of said first shims substantially has the shape of a circular ring with a number of radially directed tongues (24), the ring having an inner diameter that is smaller than the inner element diameter and the tongues extending in a radial direction outside the outer element diameter, and ~~that~~ wherein said channels consist of openings (25) that are limited by said tongues in a tangential direction.

6. (currently amended) A The high-power resistor according to ~~any of claims 3-5,~~ ~~characterized in that~~ claim 3, wherein it is located in a substantially cylindrical container so that

flow paths for the cooling medium are formed in a direction substantially perpendicular to the plane of the sheets both in a cylinder-shaped space (SP1), limited in a radial direction by the inner edges of the resistor elements and said first shims, respectively, and in a space (SP2), limited in a radial direction by the inner wall (CW) of the container and by the outer edges of the resistor elements and said first shims, respectively.

7. (currently amended) A The high-power resistor according to claim 6, ~~characterized in that~~ wherein it comprises a first blocking means (5,6) for blocking that flow path for the cooling medium which is constituted by the space (SP2), limited in a radial direction by the inner wall of the container and the outer edges of the resistor elements and said first shims, respectively.

8. (currently amended) A The high-power resistor according to claim 7, ~~characterized in that~~ wherein said first blocking means comprises a disc-shaped insulating second shim (5,6) arranged between two adjacent resistor elements and substantially having the shape of a circular ring with an outer diameter that is essentially equal to the diameter of the inner wall (CW) of the container, said ring, in a direction perpendicular to the plane of the sheets, exhibiting a first part (6) with the circular ring split up in the tangential direction and with an inner diameter that is essentially equal to the outer element diameter, and a second part (5) with an inner diameter that is smaller than the inner element diameter, and with a plurality of radial slits (52) extending from an outer diameter that is larger than the outer element diameter and an inner diameter that is smaller than the inner element diameter.

9. (currently amended) A The high-power resistor according to ~~any of claims 7-8,~~

~~characterized in that~~ claim 7, wherein it comprises a second blocking means ~~(3, 4)~~ to block that flow path for the cooling medium which is constituted by the cylinder-shaped space (SP2), which in a radial direction is limited by the inner edges of the resistor elements and said first shims, respectively.

10. (currently amended) A The high-power resistor according to claim 9, ~~characterized in that~~ wherein said second blocking means comprises a disc-shaped insulating third shim ~~(3, 4)~~, arranged between two adjacent resistor elements, substantially having the shape of a circular disc, which in a direction perpendicular to the plane of the sheets exhibits a first part ~~(4)~~ with a diameter that is essentially equal to the inner element diameter, and a second part ~~(3)~~ with an outer diameter that is smaller than the diameter of the inner wall of the container but larger than the outer element diameter, and with a plurality of radial slits ~~(32)~~ extending from an outer diameter that is larger than the outer element diameter but smaller than the outer diameter of said shim, and an inner diameter that is smaller than the inner element diameter.